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tos (equal to \$20,000) per annum, provided all the passengers accept the coupons.

In regard to other diseases there is nothing special to mention; the result is similar to that of the preceding year.

Respectfully,

W. HAVELBURG, M. D.,  
*Acting Assistant Surgeon, U. S. M. H. S.*

The SURGEON-GENERAL,  
*U. S. Marine-Hospital Service.*

*Sanitary report from Rio de Janeiro.*

RIO DE JANEIRO, *February 10, 1901.*

SIR: I have the honor to transmit to you the official sanitary report for January 16 to 31, inclusive.

There were 584 deaths from all causes, being at the rate of 36.5 per diem and corresponding to an annual death rate of 16.8 per cent per 1,000 against 37.6 and 17.3 per cent per 1,000 as compared with the foregoing fortnight.

The number of deaths in regard to infectious and contagious diseases was as follows: Tuberculosis, 107 against 99 during the first half of January; malarious fever, 39 against 35; plague, 6 against 3; smallpox, 36 against 18; yellow fever, 7 against 6; beriberi, 7 against 11; influenza, 5 against 1; typhoid fever, 5 against 7; dysentery, 5 against 2; diphtheria, 2 against 0, and measles, 0 against 1.

There were 543 births; that is an average of 33.93 per diem, and corresponding to an annual birth rate of 15.62 per cent.

*Plague.*

During January there have been 15 new cases and 9 deaths, of which 4 occurred in private houses and the other 5 in the isolation hospital; 7 patients were discharged as cured, and on February 1, 12 patients still remained under treatment in the isolation hospital.

*Bills of health.*

Since last report the following ships have been inspected and received bills of health at this office: January 29, steamship *British Prince*, British, for New York. January 31, bark *Louka*, British, for United States, via Barbados. February 13, barkentine *Good News*, American, for Baltimore. February 2, steamship *Buffon*, British, for New York. February 6, steamship *Bellaggio*, German, for New York. February 9, steamship *Cyrene*, British, for New York.

Respectfully,

W. HAVELBURG, M. D.,  
*Acting Assistant Surgeon, U. S. M. H. S.*

The SURGEON-GENERAL,  
*U. S. Marine-Hospital Service.*

## I.—Deaths in Rio de Janeiro, Brazil, during the year 1900.

Months.	Yellow fever.	Smallpox.	Plague.	Measles.	Scarlet fever.	Pernicious fever.	Diphtheria and croup.	Cholera.	Beriberi.	Typhoid fever.	Dysentery.	Malaria.	Tuberculosis.	Septic infection.	Influenza.
January .....	42	97	1	9	.....	45	.....	.....	7	2	6	50	230	6	3
February .....	64	63	.....	3	.....	52	.....	.....	9	3	3	55	208	.....	4
March .....	78	62	.....	1	.....	67	1	.....	10	11	3	54	220	9	6
April .....	61	22	2	1	.....	74	2	.....	25	13	4	50	233	5	12
May .....	36	12	14	1	.....	52	2	.....	14	15	10	53	243	8	18
June .....	28	22	78	2	.....	20	2	.....	17	9	10	56	228	3	10
July .....	9	23	76	3	.....	39	1	.....	11	16	3	43	241	7	10
August .....	7	33	50	1	.....	24	.....	.....	10	5	3	45	243	2	3
September .....	5	57	19	4	.....	20	1	.....	8	7	3	39	214	6	4
October .....	6	68	21	4	.....	32	1	.....	16	9	5	37	213	5	5
November .....	4	83	21	11	.....	23	2	.....	13	6	3	39	213	6	2
December .....	4	48	10	2	.....	27	3	.....	12	6	6	23	240	10	11
Total 1900.....	344	590	292	42	.....	475	15	.....	152	102	64	544	2,726	67	88
Total 1899.....	731	1,395	.....	62	1	723	21	.....	149	189	68	613	2,645	105	36
Increase .....	.....	.....	292	.....	.....	.....	.....	.....	3	.....	.....	.....	81	.....	52
Decrease .....	397	805	.....	20	1	248	6	.....	.....	87	4	69	.....	38	.....

## II.—Deaths in Rio de Janeiro, Brazil, during the year 1900.

Months.	Cancer.	Alcoholism.	Meningitis.	Apoplexy and softening of brain.	Trismus neonatorum.	Heart disease.	Diseases of the arteries.	Broncho-pneumonia.	Pneumonia.	Athrepsy.	Bright's disease.	Suicide.	From all causes.
January .....	23	1	44	34	13	96	56	89	13	65	16	5	1,236
February .....	12	6	37	21	6	77	42	91	20	49	11	4	1,069
March .....	12	5	45	36	15	85	39	88	7	72	17	4	1,202
April .....	17	7	24	29	6	74	56	99	25	76	23	4	1,218
May .....	18	3	35	43	11	95	42	98	15	65	29	.....	1,243
June .....	17	4	37	42	6	116	54	72	17	61	23	2	1,313
July .....	18	3	46	30	9	102	60	74	16	64	18	2	1,241
August .....	18	2	37	36	10	86	57	85	11	47	21	4	1,108
September .....	14	3	29	30	5	85	55	58	17	44	19	9	1,003
October .....	14	1	35	32	7	65	57	55	9	42	23	4	1,032
November .....	20	3	36	26	11	89	42	74	23	57	19	5	1,158
December .....	16	10	43	33	7	83	51	67	12	87	22	5	1,148
Total 1900.....	199	48	448	392	106	1,053	611	950	185	679	241	48	13,971
Total 1899.....	179	28	563	349	131	1,006	705	1,099	241	804	201	44	15,600
Increase .....	20	20	.....	43	.....	47	.....	.....	.....	.....	40	4	.....
Decrease .....	.....	.....	115	.....	25	.....	94	149	56	125	.....	.....	1,629

Per cent.

Mortality for the year 1900 for 1,000, by a population calculated 779,000 inhabitants.....	17.9
Mortality for the year 1899 for 1,000, by a population calculated 768,800 inhabitants.....	20.3
Mortality during 1900 from yellow fever for 1,000 inhabitants.....	0.4
During 1899 from yellow fever for 1,000 inhabitants.....	0.9
Mortality during 1900 from malarial fever for 1,000 inhabitants.....	1.3
During 1899 from malarial fever for 1,000 inhabitants.....	1.5
Mortality during 1900 from tuberculosis for 1,000 inhabitants.....	3.4
During 1899 from tuberculosis for 1,000 inhabitants.....	3.4
Mortality during 1900 from pernicious fever for 1,000 inhabitants.....	0.61
During 1899 from pernicious fever for 1,000 inhabitants.....	0.94
Percentage of deaths from tuberculosis to the total mortality for 1900.....	19.5
Of deaths from tuberculosis to the total mortality for 1899.....	16.9

	Per cent.
Percentage of deaths from malarial and pernicious fever to the total mortality for 1900.....	7.3
Of deaths from malarial and pernicious fever to the total mortality for 1899..	8.5
Percentage of deaths from yellow fever to the total mortality for 1900.....	2.4
Of deaths from yellow fever to the total mortality for 1899.....	4.7
Percentage of deaths from beriberi to the total mortality for 1900.....	1.1
Of deaths from beriberi to the total mortality for 1899.....	0.95
Percentage of deaths from cancer to the total mortality for 1900.....	1.4
Of deaths from cancer to the total mortality for 1899.....	1.16
Percentage of deaths from apoplexy and softening of the brain to the total mortality for 1900 .....	2.8
Of deaths from apoplexy and softening of the brain to the total mortality for 1899 .....	2.2
Percentage of deaths from heart and arterial diseases to the total mortality for 1900 .....	11.9
Of deaths from heart and arterial diseases to the total mortality for 1899.....	10.9
Percentage of deaths from pneumonia to the total mortality for 1900.....	1.3
Of deaths from pneumonia to the total mortality for 1899.....	1.5
Percentage of deaths from Bright's disease to the total mortality for 1900.....	1.0
Of deaths from Bright's disease to the total mortality for 1899.....	1.3
Percentage of deaths from diseases of the digestive organs to the total mortality for 1900.....	3.1
Of deaths from diseases of the respiratory organs to the total mortality for 1900.....	8.2
Of deaths from diseases of the nervous organs to the total mortality for 1900..	7.4

Deaths according to nationality.

Months.	Brazilians.	Portuguese.	Italians.	Spaniards.	Germans.	British.	French.	Other Europeans.	English-speaking Americans.	Spanish-Americans.	Turkish - Arabians.	Other Asiatics.	Africans.	Nationality unknown.
January.....	952	186	20	30	5	3	5	10	1	.....	2	.....	7	5
February.....	767	193	32	29	4	3	8	9	.....	.....	7	.....	17	.....
March.....	848	217	42	38	4	5	10	5	.....	3	10	2	15	8
April.....	890	197	50	27	3	4	11	5	1	1	6	1	21	.....
May.....	925	255	25	34	5	.....	9	4	1	.....	4	3	14	4
June.....	934	245	31	28	7	2	8	4	2	2	1	.....	22	17
July.....	898	204	27	35	6	1	7	5	1	4	4	2	19	28
August.....	800	192	23	31	3	1	8	5	2	7	1	1	10	15
September.....	751	172	14	19	.....	5	3	4	.....	1	3	1	20	10
October.....	769	171	19	24	4	5	2	7	.....	4	1	2	12	13
November.....	887	187	24	15	1	2	4	1	.....	3	1	1	25	7
December.....	895	168	29	19	3	2	7	2	.....	1	1	1	14	6
Total.....	10,316	2,387	336	329	45	33	82	61	8	26	41	14	196	108
1899.....	11,399	2,648	643	600	64	43	114	81	16	53	30	5	244	138
Increase.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Decrease.....	1,083	261	307	271	19	10	32	20	8	27	11	9	48	30

*Births in Rio de Janeiro during 1900.*

Months.	Legitimate.			Illegitimate.			Total births.
	Males.	Females.	Total.	Males.	Females.	Total.	
First quarter.....	1,352	1,328	2,680	492	611	803	3,483
Second quarter.....	1,503	1,381	2,884	453	433	886	3,770
Third quarter.....	1,386	1,316	2,702	374	390	764	3,466
Fourth quarter.....	1,286	1,056	2,342	394	383	777	3,119
Total.....	5,527	5,081	10,608	1,713	1,817	3,230	13,838

Months.	Race.							Still-births.
	White.		Mixed.		Colored.		Total re-ported.	
	Males.	Females.	Males.	Females.	Males.	Females.		
First quarter.....	1,498	1,586	193	189	52	55	3,483	310
Second quarter.....	1,654	1,546	243	207	59	61	3,770	296
Third quarter.....	1,431	1,432	197	203	46	39	3,298	251
Fourth quarter.....	1,842	1,296	176	182	42	42	3,082	301
Total.....	5,925	5,862	809	781	199	197	13,683	1,155

Total living births, 1900..... 13, 838  
 Total stillbirths, 1900..... 1, 155

Total..... 14, 993

Total living births, 1899..... 14, 235  
 Total stillbirths, 1899..... 1, 135

Total..... 15, 370

Population officially estimated, 779,000 inhabitants; rate per 1,000 of births, 17.7; legitimate births, 13.6; illegitimate births, 4.1; stillbirths, 1.4; proportion of illegitimate to legitimate births, 1 to 3.28, or 30.5 per cent.

*Deaths of children.*

Month.	Between—		Month.	Between—	
	0 day and 1 month old.	1 month and 1 year old.		0 day and 1 month old.	1 month and 1 year old.
January.....	65	185	August.....	54	102
February.....	41	137	September.....	42	102
March.....	64	160	October.....	41	125
April.....	68	188	November.....	57	172
May.....	70	179	December.....	45	174
June.....	56	162	Total.....		2,431
July.....	56	141			

Per cent.

Ratio of the mortality of children up to 1 year old to the general mortality..... 17.4  
 Mortality of children up to 1 month old from trismus..... 16.0  
 Mortality of children up to 1 year old from athrepsy..... 27.9  
 Death rate of children under 1 month old to 1,000 inhabitants..... 0.8  
 Death rate of children of 1 month up to 1 year old to 1,000 inhabitants..... 2.2

*Meteorological observations—Averages.*

Months.	Prevailing winds.	Atmospheric pressure.	Temperature.	Pressure of dampness.	Comparative dampness.	Fogginess.	Evaporation.	Ozone.	Rainfall.
January.....	SW.	752.7	24.80	18.4	78.5	.7	76.0	101	65.38
February.....	SW.	754.6	24.86	17.9	76.8	.5	80.2	112	62.85
March.....	SW.	754.6	24.62	18.8	81.7	.6	63.9	112	154.02
April.....	SW.	757.37	22.06	16.4	81.6	.6	57.1	83	99.28
May.....	N.	759.35	21.14	15.3	82.4	.6	46.7	189	56.45
June.....	N.	761.53	19.99	14.4	82.7	.6	43.5	110	42.78
July.....	N.	760.37	20.62	14.1	78.6	.3	52.9	102	30.26
August.....	SW.	760.61	20.23	13.3	75.9	.5	70.0	135	27.19
September.....	SW.	760.54	20.17	13.4	76.3	.6	71.8	147	24.20
October.....	SW.	757.27	21.47	14.8	78.6	.7	78.5	165	103.52
November.....	SW.	755.18	22.74	16.9	82.7	.8	58.3	149	96.52
December.....	{ SW. N. }	{ 754.23	25.06	18.2	78.0	.7	78.7	103	127.61

Ships inspected in the harbor of Rio de Janeiro by the medical authorities during the year 1900: 1,196 steamers and 207 sailing vessels, total, 1,403 ships. Movements at the quarantine station of Ilha Grande: Semester I: 168 steamers and 46 sailing vessels—total, 214 ships; Semester II: 378 steamers and 106 sailing vessels—total, 484 ships; 546 steamers and 152 sailing vessels—total, 698 ships.

## CANARY ISLANDS, TENERIFFE.

*Quarantine against Cardiff, Wales, on account of plague.*

TENERIFFE, February 21, 1901.

SIR: I have the honor to report that quarantine has been declared against vessels arriving from Cardiff, Wales. They have to undergo a quarantine of twelve days; this includes from the time of leaving the port above stated. From information it appears that a case of plague died there, and it is indorsed on all bills of health issued by the Spanish consul at Cardiff.

Respectfully,

SOLOMON BERLINER,  
United States Consul.

Hon. ASSISTANT SECRETARY OF STATE.

## CHINA.

*Report from Hongkong—Two deaths from plague.*

HONGKONG, CHINA, February 12, 1901.

SIR: I have the honor to transmit herewith the report of inspection work at this station for the week ended February 9, 1901. The usual disinfection work was done, 586 baths being given and 882 pieces of baggage being disinfected during the week. Two cases of plague occurred during the week among the Chinese population, both resulting in death. No other case of communicable disease was reported during the week.

Respectfully,

JOHN W. KERR,  
Assistant Surgeon, U. S. M. H. S.

The SURGEON-GENERAL,  
U. S. Marine-Hospital Service.